

## **Amendments to Claims**

Please amend the claims as detailed below. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously cancelled)
2. (Currently amended) The standardized peripheral apparatus of claim 34, wherein the vent is an outlet vent disposed on a first portion of a ~~first~~ surface of the case.
3. (Currently amended) The standardized peripheral apparatus of claim 2, further comprising:  
an inlet vent disposed on a second portion of a ~~the second~~ surface of the case, to facilitate an intake of air from the ambient.
4. (Cancelled)
5. (Previously cancelled)
6. (Previously amended) The standardized peripheral apparatus of claim 3, wherein the flow generating device is positioned substantially near the inlet vent.
7. (Original) The standardized peripheral apparatus of claim 6, wherein the flow generating device comprises a jet actuator.
8. (Previously amended) The standardized peripheral apparatus of claim 7, wherein the jet actuator comprises a selected one of a piezoelectric synthetic jet actuator or an electromagnetic synthetic jet actuator.
9. (Original) The standardized peripheral apparatus of claim 7, wherein the jet actuator is approximately between 2-3 mm high.
10. (Original) The standardized peripheral apparatus of claim 7, wherein the jet actuator operates on input powers approximately between 10 and 50 milliwatts.
11. (Previously amended) The standardized peripheral apparatus of claim 3, further comprising:  
at least one partition disposed inside the case using available space to provide a plurality of air flow chambers.
12. (Original) The standardized peripheral apparatus of claim 11, wherein the flow generating device and at least a portion of the integrated circuit are located substantially in a first air flow chamber.
13. (Currently amended) The standardized peripheral apparatus of claim 12, wherein

the first air flow chamber is defined in part by the second portion of the ~~second~~ surface on which the inlet vent is disposed; and

the first portion of the ~~first~~ surface on which the outlet vent is disposed defines a second air chamber.

14. (Original) The standardized peripheral apparatus of claim 13, wherein the first air flow chamber is flow-coupled to the second air flow chamber.

15. (Previously amended) The standardized peripheral apparatus of claim 34, wherein the board, the integrated circuit, the case and the thermal management arrangement form a PC Card.

16. (Previously amended) The standardized peripheral apparatus of claim 15, wherein the PC Card is a selected one of a data storage device or a communication interface adapter.

17. (Previously cancelled)

18. (Cancelled)

19. (Currently amended) The standardized peripheral apparatus of claim ~~18~~36, wherein the flow generating device is positioned substantially near the inlet vent.

20. (Original) The standardized peripheral apparatus of claim 19, wherein the flow generating device includes a synthetic jet actuator.

21. (Previously amended) The standardized peripheral apparatus of claim 20, wherein the synthetic jet actuator is a selected one of a piezoelectric type or an electromagnetic type.

22. (Original) The standardized peripheral apparatus of claim 21, wherein the synthetic jet actuator operates on input powers substantially between 10 and 50 milliwatts.

23. (Previously amended) The standardized peripheral apparatus of claim 36, wherein the connector comprises a selected one of a 32-bit Cardbus connector or a universal serial bus connector.

24. (Previously cancelled)

25. (Previously amended) The method of claim 37, wherein the vent is an outlet vent and the method further comprising:

providing an inlet vent to introduce air from an ambient into an interior of the case.

26. (Previously cancelled)

27. (Previously amended) The method of claim 37, wherein the flow generating device comprises a synthetic jet actuator.

28.-29. (Previously cancelled)

30. – 33. (Cancelled)

34. (Previously added) A standardized peripheral apparatus comprising  
a board;  
an integrated circuit coupled to the board;  
a case, encasing the integrated circuit and the board, having a form factor including a plurality of external dimensions compatible with an industry standard having a plurality of specifications governing the form factor and the external dimensions; and  
a thermal management arrangement including  
a vent on the case to at least facilitate an exhaust of heat convectively emitted from the integrated circuit into an ambient, and  
a flow generating device coupled to the board to provide an air current to at least facilitate the exhaust of the convectively emitted heat through the vent.

35. (Previously added) The standardized peripheral apparatus of claim 11, wherein a partition of the at least one partition is connected to the board.

36. (Currently amended) A standardized peripheral apparatus comprising:  
a board;  
an integrated circuit coupled to the board;  
a case, encasing the integrated circuit and the board, having  
an outlet vent disposed on a first portion of a first surface of the case to facilitate exhaust of heat convectively emitted from the integrated circuit, into an ambient; and  
an inlet vent disposed on a second portion of a ~~second~~ second surface of the case, to facilitate an intake of air from the ambient;  
a flow generating device disposed inside the case, to at least facilitate an air flow over the integrated circuit in a general direction from the inlet vent to the outlet vent; and  
a connector, to directly couple the standardized peripheral apparatus to a host device in a substantially rigid relationship.

37. (Previously added) A method comprising:  
operating an integrated circuit, housed inside of a case having a form factor including a plurality of external dimensions complying with an industry standard having a plurality of specifications governing the form factor and the external dimensions, leading to heat being convectively emitted from the integrated circuit; and  
providing an airflow with a flow generating device to exhaust the convectively emitted heat through a vent in the case.

38. (Cancelled)

## **REMARKS**

In this Response claims 2, 3, 13, 19, and 36 have been amended and claims 4, 18, 30 – 33, and 38 have been cancelled without prejudice. Support for these amendments is found throughout the originally filed specification.

Claims 2, 3, 6 – 16, 19 – 23, and 34 – 37 remain pending.

### **Claim Rejections – 35 USC 112**

Claims 4 and 18 – 23 are rejected under 35 USC 112, second paragraph, as being indefinite. Specifically, it is alleged that it is contradictory to have a further limitation that requires different surfaces to be on the same surfaces. The Applicants have presented cancellations and amendments to clarify the claim language.

Accordingly, Applicants respectfully request that this rejection be withdrawn.

### **Claim Rejections – 35 USC § 102**

In the Office Action claims 2 – 3, 6 – 8, 11 – 12, 25, 27, 34, and 37 are rejected under 1-33 are rejected under § 102(e) as being anticipated by Pokharna (US 6,801,430) (hereinafter “Pokharna”). The Applicants traverse this rejection.

In the rejection of these claims, the Examiner states that “it is inherent to produce an apparatus having a case within the electronic field that is compatible with industry standards.” The Applicants traverse this statement of inherency.

The requirements of making a rejection based on inherent teachings of prior art are discussed in MPEP 2112. In this section it is stated that to rely “upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art.” *Ex parte Levy*, 17 USPQ2d 1461, 1464 (Bd. Pat. App. & Inter. 1990) (underlining emphasis in original, italicized emphasis added). That is, the art relied upon to supply every other limitation of a rejected claim must inherently disclose the missing limitation.

Applying this law to the present situation, it is clear that the Examiner is required to show that it is inherent that the case of Pokharna’s portable computer system **202** is